

AMENDMENTS TO THE CLAIMS

Claims 1-9 (Canceled)

10. (Currently Amended) A hydroxylapatite metal composite material, wherein the composite material is comprised of a metal network, a homogeneous microstructure and a three-dimensional network structure.
11. (Previously Presented) The hydroxylapatite metal composite material according to claim 10, wherein the metal is a precious metal or a precious metal mixture.
12. (Previously Presented) The hydroxylapatite metal composite material according to claim 11, wherein the precious metal is silver or gold.
13. (Previously Presented) The hydroxylapatite metal composite material according to claim 10, wherein the metal is titanium.
14. (Withdrawn) A method of producing a hydroxylapatite metal composite material, the method comprising constructing the

composite material as a metal network, initially preparing a mixture of powdery hydroxylapatite and powdery metal, prepressing the mixture into a green compact, and sintering the green compact at a pressure of 1.4 to 7.7 GPa and a temperature of 500 to 900 °C.

15. (Withdrawn) The method according to claim 14, comprising sintering the green compacts for 1 to 3 minutes.
16. (Previously Presented) The hydroxylapatite metal composite material according to claim 10, wherein the material is adapted for use as an implant.
17. (Previously Presented) The hydroxylapatite metal composite material according to claim 16, wherein the implant is a dental implant.
18. (Previously Presented) The hydroxylapatite metal composite material according to claim 16, wherein the implant is a bone implant.